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| PPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--------------------------|---------------|----------------------|-------------------------|------------------|--|
| 09/833,856 | 04/11/2001 | Vladimir Matena | SUNMP004 | 2226 | |
| 25920 75 | 90 12/30/2003 | | EXAMINER | | |
| MARTINE & PENILLA, LLP | | | IQBAL, NADEEM | | |
| 710 LAKEWAY SUITE 170 | Y DRIVE | | ART UNIT | PAPER NUMBER | |
| SUNNYVALE, CA 94085 | | | 2114 | /_ | |
| | | | DATE MAILED: 12/30/2003 | 7 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| , | | A | pplication No. | | Applicant(s) | • • | | | |
| Office Action Summary | | 0: | 9/833,856 | | MATENA ET AL. | | | | |
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| | | | adeem Iqbal | | 2184 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | | | |
| THE I - External after - If the - If NC - Failu - Any r | ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN msions of time may be available under the provision SIX (6) MONTHS from the mailing date of this conperiod for reply specified above is less than thirty period for reply is specified above, the maximum reto reply within the set or extended period for reply received by the Office later than three months departed term adjustment. See 37 CFR 1.704(b). | NICATION. ns of 37 CFR 1.136(a) munication. (30) days, a reply with statutory period will ap ly will, by statute, caus | in the statutory minimum of the oply and will expire SIX (6) MC se the application to become a | a reply be time nirty (30) days DNTHS from the ABANDONED | ely filed will be considered timel ne mailing date of this o (35 U.S.C. § 133). | | | | |
| 1)⊠ | Responsive to communication(s) fi | led on <u>11 April :</u> | <u>2001</u> . | | | | | | |
| 2a) <u></u> ☐ | This action is FINAL . | 2b)⊠ This acti | on is non-final. | | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| Disposition of Claims | | | | | | | | | |
| 5)□ 6)⊠ 7)□ | 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | | | |
| Applicati | on Papers | | | | | | | | |
| 10) | The specification is objected to by to the drawing(s) filed on is/are Applicant may not request that any objected Replacement drawing sheet(s) including the oath or declaration is objected | e: a) accepte ection to the draw ng the correction i | ving(s) be held in abeya is required if the drawin | ance. See g(s) is obje | 37 CFR 1.85(a). ected to. See 37 Cl | • • | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | | | | |
| a)[13)□ A si 3 a 14)□ A | Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the International See the attached detailed Office activations as pecific reference was included 7 CFR 1.78. 1. The translation of the foreign lance as pecific reference was included in the first see the seement of the foreign lance as pecific reference was included in the first seement was include | y documents hay documents hay documents has of the priority on all Bureau (Pon for a list of the for domestic pred in the first seanguage provisi for domestic pr | ave been received. ave been received in documents have been CT Rule 17.2(a)). the certified copies notionity under 35 U.S.Centence of the specificant application has notionity under 35 U.S.Centence 35 U.S.C | Application received by the received by 119(e) cation or indeed the received been received. | n Nod in this National d. to a provisional in an Application sived. and/or 121 since | l application) Data Sheet. a specific | | | |
| Attachmen | | | | | | | | | |
| 2) Notic | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review nation Disclosure Statement(s) (PTO-1449) | | | | PTO-413) Paper No(tent Application (PT0 | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chapman et al., (U.S. Patent number 6594774) in view of Pagurek et al., (U.S. Patent number 6550024).
- 3. As per claim 1, Chapman teaches (col. 1, lines 58-60) an invention that provides reliability of a computer system by carrying out various monitoring functions, objects can register with a critical process monitor for various types of monitoring, also teaches failure detection to detect a failure of the object, and object providing recovery action upon detection of a failure of the object. He thus teaches limitations pertain to performing failure recovery, reporting a detection of an error in a system component to a runtime executive, notifying control module of the system component failure. He does not explicitly disclose isolating the system component upon detection of an error. He teaches (col. 12, lines 12-16) a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread. Pagurek et al., teaches (col. 2, lines 65-67) a system of locating errors and informing the appropriate agents so that they can avoid using the faulty resources in the future. He thus teaches to isolate the system components. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the system of Pagurek et

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al., that detects and isolates failed system components into the system of Chapman et al., to be able to detect errors and also able to isolate the failed system components. This is because Chapman already teaches as stated above a system that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, thus provides motivation for the stated inclusion.

- 4. As per claim 2, Chapman et al., already teaches as stated per claim 1 above a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, therefore the checkup thread clearly performs equivalent function of a service module.
- 5. As per claim 3, Chapman et al., already teaches determining a failed thread and setting a recovery event that identifies the failed thread, and Pagurek et al., teaches a system of locating errors and informing the appropriate agents so that they can avoid using the faulty resources in the future, therefore the combination as indicated per claim 1 clearly would provide disabling the service module.
- 6. As per claim 4, Chapman et al., teaches (col. 2, lines 40-42) an application programming interface that provides the interface between the monitor and the objects in the computer system, allowing objects to access the various features of the monitor, thus provides applicability to Java server.
- 7. As per claim 5, He already teaches per claim 3, that Pagurek teaches a system that locates errors, informs the appropriate agents so they can avoid using the faulty resources, therefore execution in a Java environment would enable stopping execution of a Java server.

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8. As per claim 6, Chapman et al., already teaches determining a failed thread and setting a recovery event that identifies the failed thread, and Pagurek et al., teaches a system of locating errors and informing the appropriate agents so that they can avoid using the faulty resources in the future, therefore the combination as indicated per claim 1 clearly would provide a system that facilitate isolating a system component.

- 9. Claims 7-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chapman et al., (U.S. Patent number 6594774) in view of Bradshaw et al., (U.S. Patent number 6480944).
- 10. As per claim 7, Chapman substantially teaches the claimed invention as disclosed related to claim 1 above. He also teaches (col. 1, lines 58-60) an invention that carries out various monitoring functions, objects can register with a critical process monitor for various types of monitoring, also teaches failure detection to detect a failure of the object, and object providing recovery action upon detection of a failure of the object. He thus teaches limitations pertain to performing failure recovery, detecting an error, determining modules that are affected by the detected error. He does not explicitly disclose restarting the modules affected by the detected error on as second Java server using the control module. He teaches (col. 12, lines 12-16) a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread. Bradshaw et al., teaches (col. 13, lines 8-12) recovery strips and restart strips that include the ability to restart a process, the restart scripts also include the ability to restart a system failure. It would have been obvious to a person of ordinary skill in the art to include the recovery method of Bradshaw that include recovery strips and restart strips as taught by Bradshaw into the method of Chapman thus clearly provides the ability to restart the

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modules affected by the detected error. This is because Chapman already teaches as stated above a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, Bradshaw further teaches that (abstract) stated features may reduce the amount of data and process time lost as a result of system failure, thus provides motivation for the inclusion.

- 11. As per claim 8, Bradshaw et al., also teaches (col. 13, lines 20-22) recovery strips also include the ability to recover lost data after failures and recovery strips may also enable a system to recover the overall operation of an application process or system, thus provides the ability to allocate a new module for an affected module as claimed.
- 12. As per claims 9 & 10, Bradshaw already teaches as stated above recovery strips also include the ability to recover lost data after failures and recovery strips may also enable a system to recover the overall operation of an application process or system, thus would clearly include operation of loading a state for the new module.
- 13. As per claims 11 & 12, Bradshaw also teaches (col. 13, lines 10-12) that the recovery strips also include the resetting or otherwise reconfiguration of an application so that it may resume operation, which would clearly require enabling routing of incoming messages to the new module and disabling routing of incoming messages to the module affected by the error.
- 14. As per claim 13, Bradshaw also teaches as stated above that the recovery strips also include the resetting or otherwise reconfiguration of an application, thus providing the ability to stop execution of the module affected by the error.
- 15. As per claim 14, Chapman substantially teaches the claimed invention as disclosed related to claim 1 above He also teaches (col. 1, lines 58-60) various monitoring functions,

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objects can register with a critical process monitor for various types of monitoring, also teaches failure detection to detect a failure of the object, and object providing recovery action upon detection of a failure of the object. He thus teaches limitations pertain to performing failure recovery, reporting a detection of an error in a system component to a runtime executive, notifying control module of the system component failure. He does not explicitly disclose isolating the system component upon detection of an error. He teaches (col. 12, lines 12-16) a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread. Pagurek et al., teaches (col. 2, lines 65-67) a system of locating errors and informing the appropriate agents so that they can avoid using the faulty resources in the future. He thus teaches to isolate the system components. It would have been obvious to a person of ordinary skill in the art to include the system of Pagurek et al., that detects and isolates failed system components into the system of Chapman et al., to be able to detect errors and also able to isolate the failed system components. This is because Chapman already teaches as stated above a system that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, thus provides motivation for the stated inclusion.

- 16. As per claim 15, Chapman et al., already teaches as stated per claim 1 above a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, therefore the checkup thread clearly provides the ability to notify the control module of the component failure.
- 17. As per claim 16, Chapman et al., already teaches determining a failed thread and setting a recovery event that identifies the failed thread, and Pagurek et al., teaches a system of locating

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errors and informing the appropriate agents so that they can avoid using the faulty resources in the future, therefore the combination as indicated per claim 1 clearly provides the ability to determines modules affected by the detected error.

- 18. As per claim 17, Chapman et al., does not explicitly disclose restarting the modules affected by the detected error. He teaches (col. 12, lines 12-16) a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread. Bradshaw et al., teaches (col. 13, lines 8-12) recovery strips and restart strips that include the ability to restart a process, the restart scripts also include the ability to restart a system failure. It would have been obvious to a person of ordinary skill in the art to include the recovery method of Bradshaw that include recovery strips and restart strips as taught by Bradshaw into the method of Chapman thus clearly provides the ability to restart the modules affected by the detected error. This is because Chapman already teaches as stated above a checkup thread that determines whether the selected thread has failed and if so sets a recovery event that identifies the failed thread, Bradshaw further teaches that (abstract) stated features may reduce the amount of data and process time lost as a result of system failure, thus provides motivation for the inclusion.
- 19. As per claims 18 & 19, Bradshaw et al., also teaches (col. 13, lines 20-22) recovery strips also include the ability to recover lost data after failures and recovery strips may also enable a system to recover the overall operation of an application process or system, thus provides the ability to allocate a new module for an affected module as claimed.
- 20. As per claims 20 & 21, Bradshaw already teaches as stated above recovery strips also include the ability to recover lost data after failures and recovery strips may also enable a system

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to recover the overall operation of an application process or system, thus would clearly include operation of loading a state for the new module.

21. As per claim 22, Bradshaw also teaches (col. 13, lines 10-12) that the recovery strips also include the resetting or otherwise reconfiguration of an application so that it may resume operation, and also teaches that the recovery strips also include the ability to recover lost data after failures and recovery strips may also enable a system to recover the overall operation of an application process or system, thus the loaded state of a module would be a state of a module affected by the detected error prior to a time of detected error since he teaches recovery and reconfiguration such that the application may resume operation, which require loading a state prior to the detected error state.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadeem Iqbal whose telephone number is (703)-308-5228. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (703)-305-9713. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-746-7239 for regular communications and (703)-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

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